

Figure 1
First Dimension Separations of 3 Different Cell Lysates

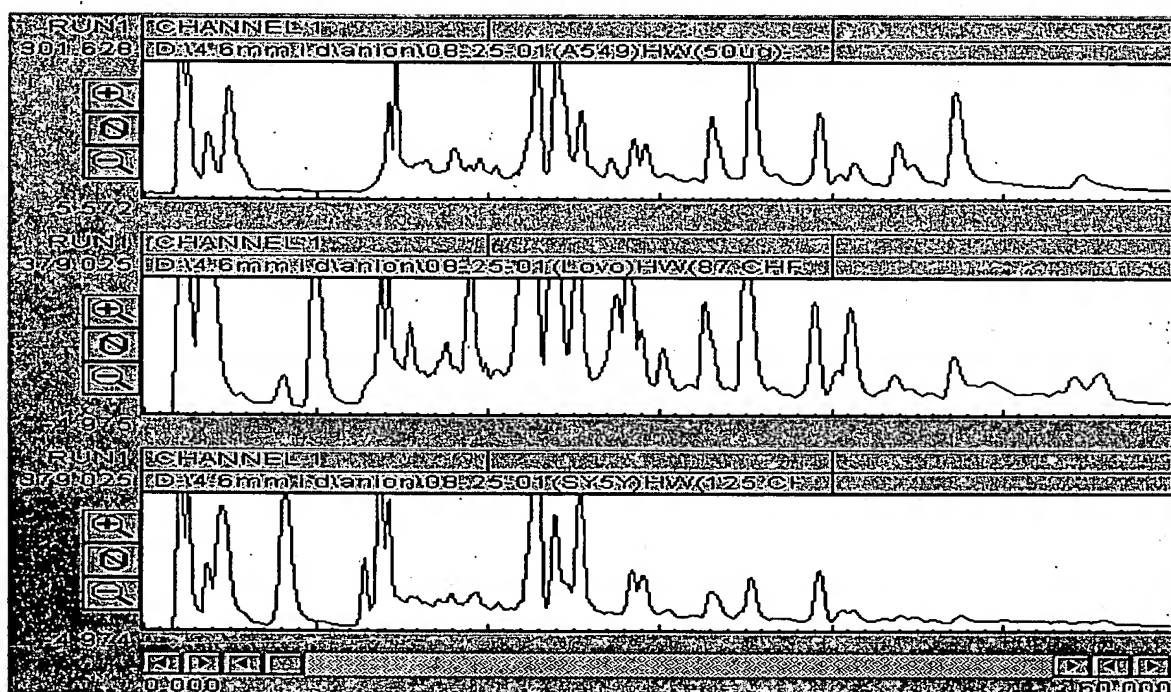


Figure 2
Second Dimension Reversed Phase Separations

2D RP (608um ID x 20cmL)

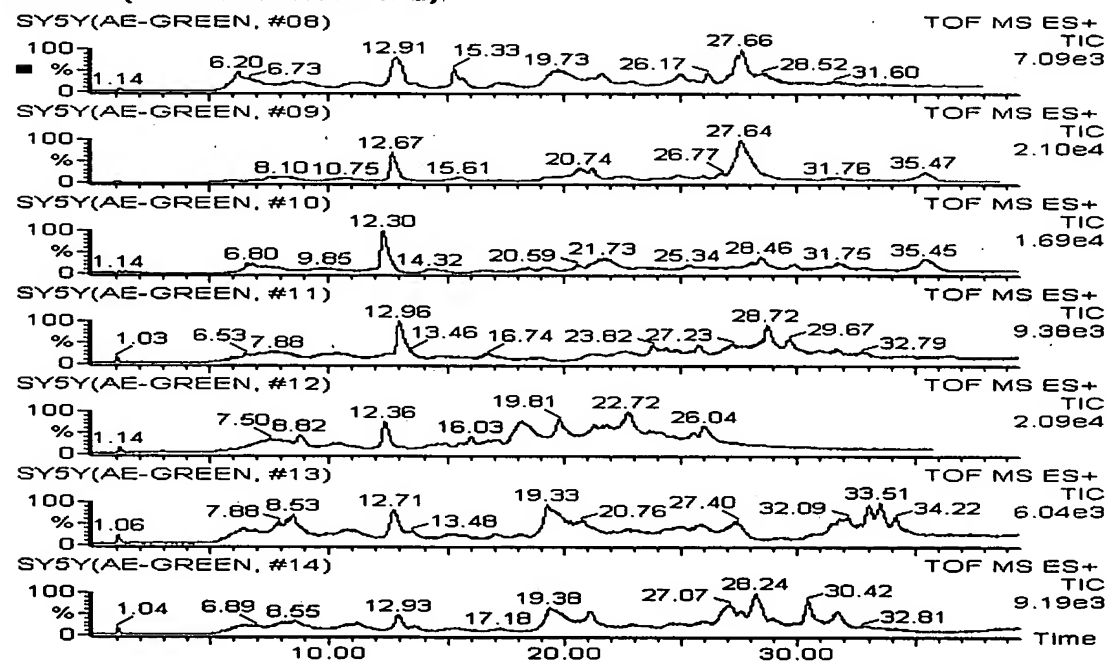


Figure 3
Second Dimension Reversed Phase Separations

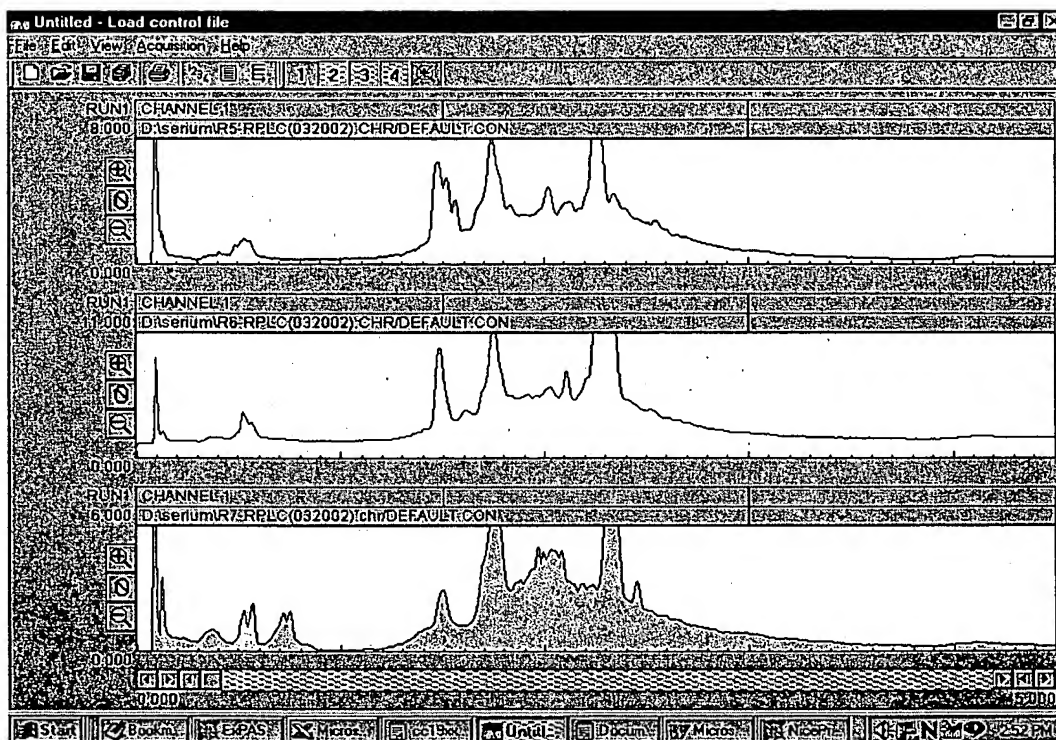
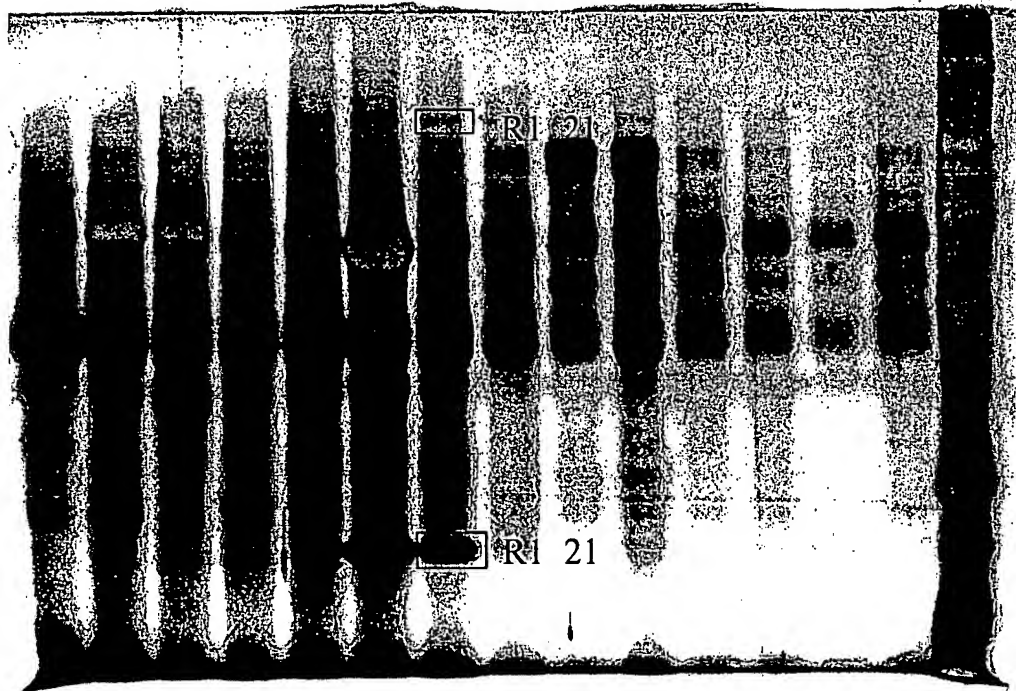
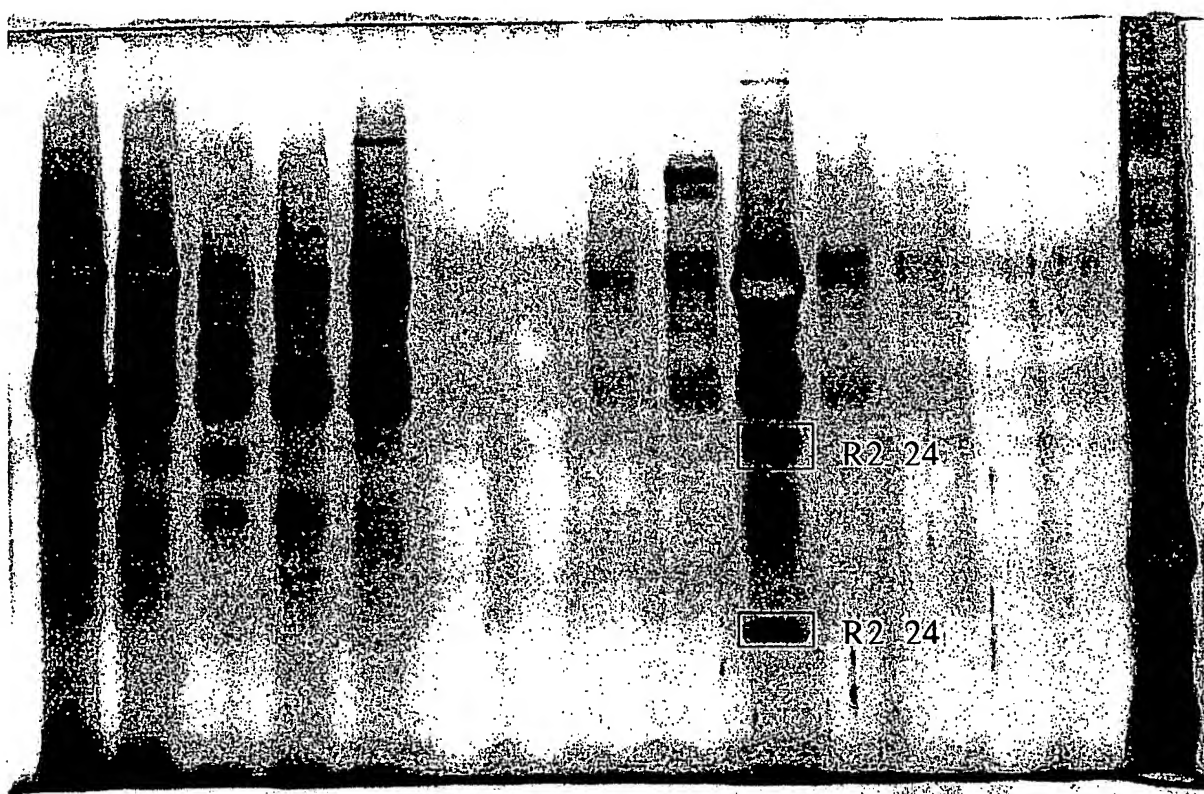


Figure 4
Third Dimension Separation of Plasma Protein
Fractions



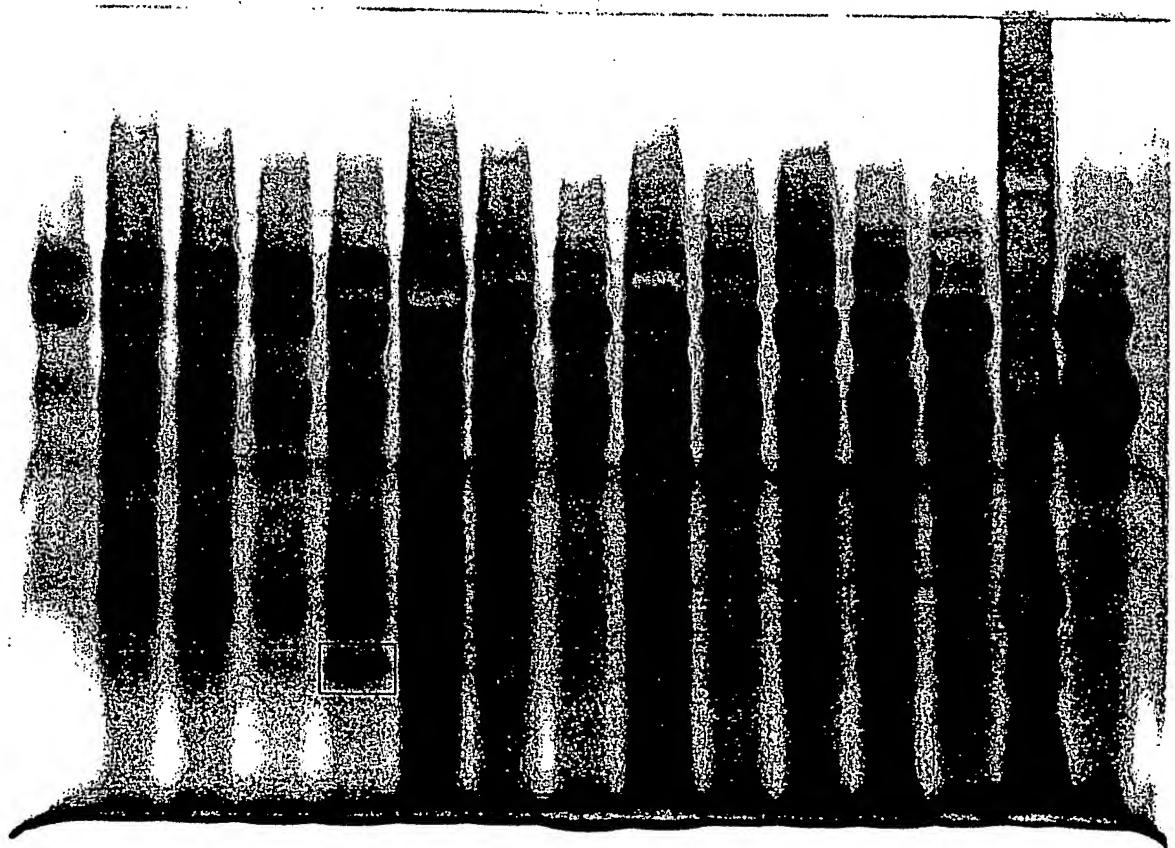
HWR1B

Figure 5
Third Dimension Separation of Plasma Protein
Fractions



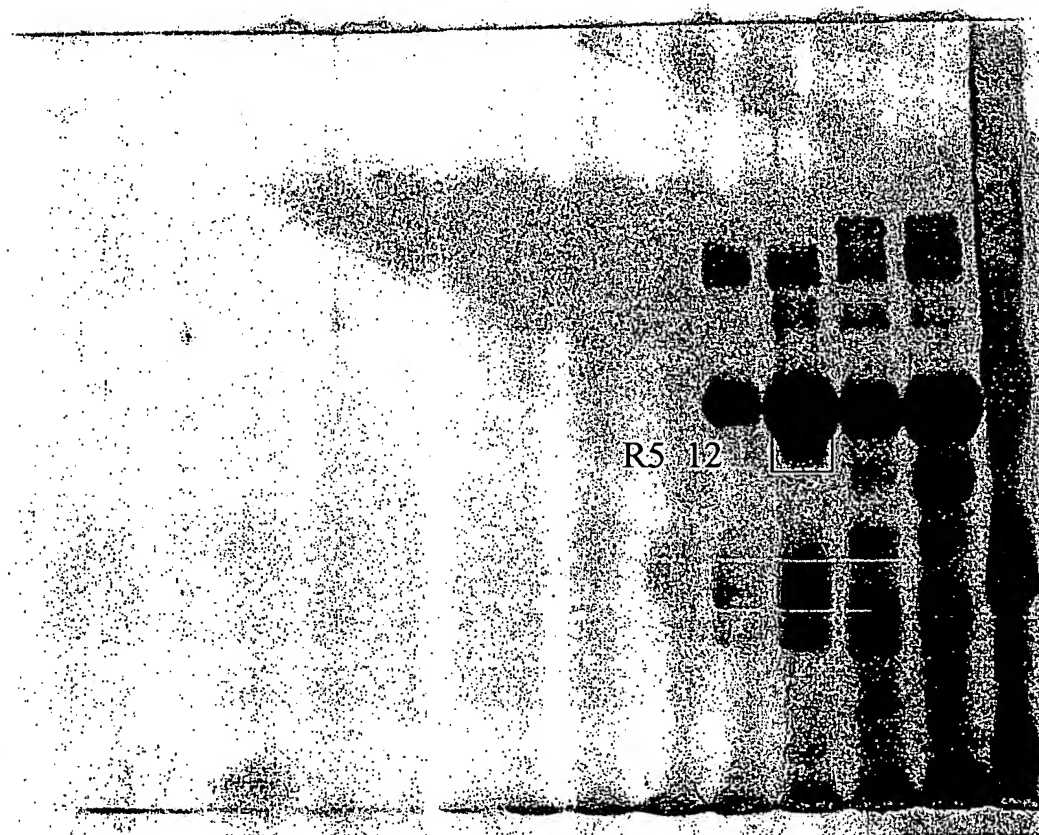
HWR2B

Figure 6
Third Dimension Separation of Plasma Protein
Fractions



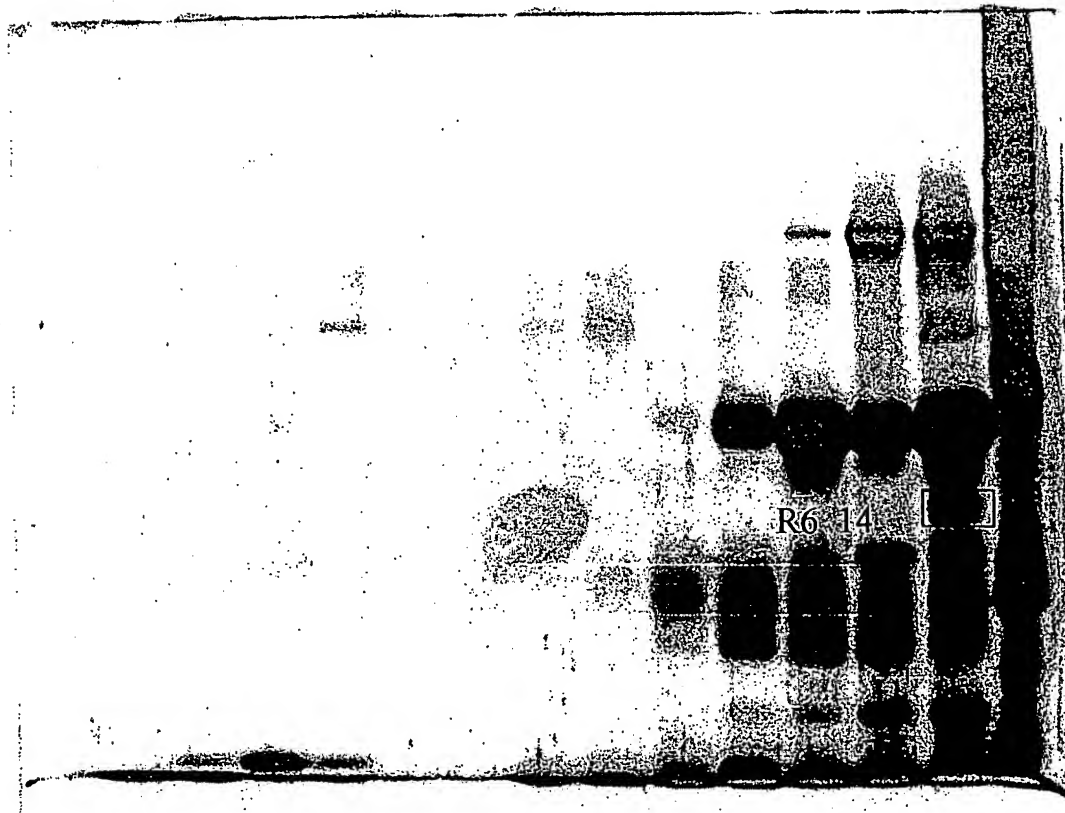
HWR4B

Figure 7
Third Dimension Separation of Plasma Protein
Fractions



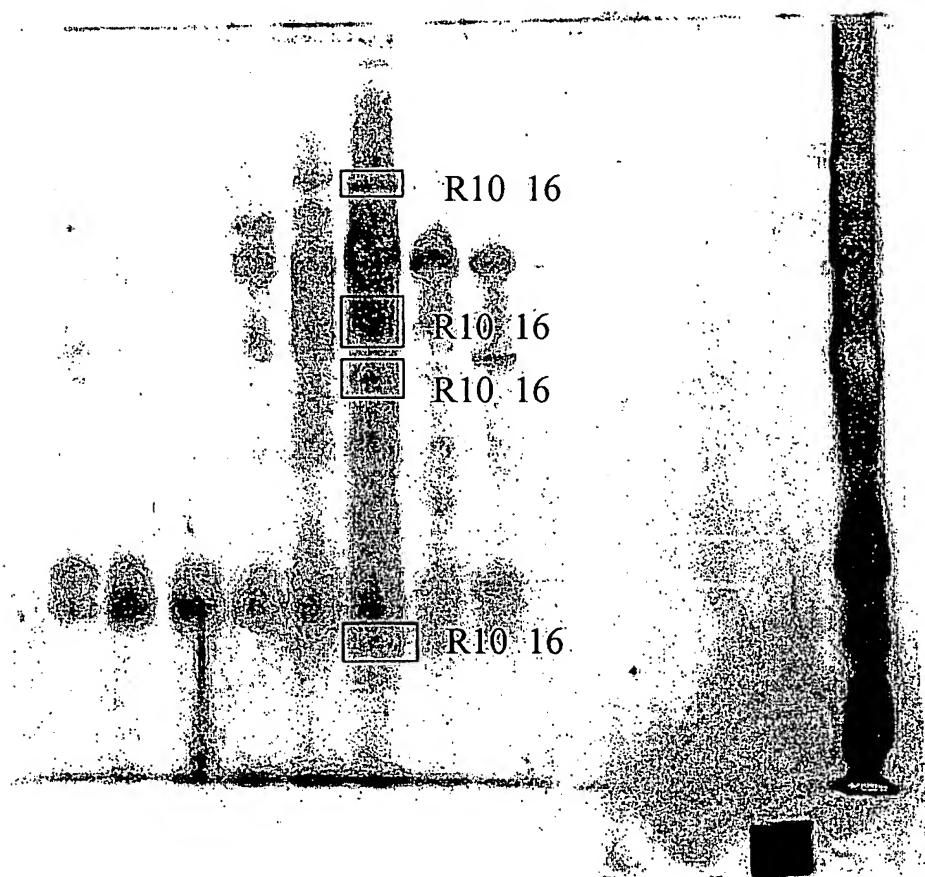
HWR5B

Figure 8
Third Dimension Separation of Plasma Protein
Fractions



HWR6B

Figure 9
Third Dimension Separation of Plasma Protein
Fractions



HWR10C

Figure 10

Plasma Proteins Identified After 3-D Separation

DATA ENTRY FORM FOR PROTEOMIC RESEARCH

3D Protein Separation (Serum sample) by Q-TOF(Dr.Hanash's lab)

Frac.No.	Acc. No.	MW/pI	Entry name	Protein Name	Gene name	Release date
R1_13_03	P23821	22108/10	RS7_HUMAN	40S ribosomal protein S7	RPS7	1991.11
R1_21_04	P02647	30759/5.7	APAI_HUMAN	Apolipoprotein A-I [Precursor]	APOA1	1986.07
	Q92558	61634/6.4	WAS1_HUMAN	Wiskott-Aldrich syndrome protein family member 1	WASF1	1997.11
R1_21_10	P02763	23493/5.0	A1AG_HUMAN	Alpha-1-acid glycoprotein 1 [Precursor]	AGP1	1986.07
R2_24_04	P02647	30759/5.7	APAI_HUMAN	Apolipoprotein A-I [Precursor]	APOA1	1986.07
R2_24_09	P01009	46718/5.5	A1AT_HUMAN	Alpha-1-antitrypsin [Precursor]	AAT	1986.07
R4_19_03	P02647	30759/5.7	APAI_HUMAN	Apolipoprotein A-I [Precursor]	APOA1	1986.07
R5_12_07	P25311	33854/5.8	ZA2G_HUMAN	Zinc-alpha-2-glycoprotein [Precursor]	ZNGP1	1992.05
	P07910	33280/5.1	ROC_HUMAN	Heterogeneous nuclear ribonucleoproteins C1/C2	HNRPC	1988.08
	P00737	38433/6.5	HPT1_HUMAN	Haptoglobin-1 [Precursor]	HP	1988.01
R6_14_08	P10909	52476/6.2	CLUS_HUMAN	Clusterin [Precursor]	CLU	1989.07
R10_16_01	P25787	25749/7.5	PSA2_HUMAN	Proteasome subunit alpha type 2	PSC3	1992.05
R10_16_03	P14136	49862/5.5	GFAP_HUMAN	Glial fibrillary acidic protein, astrocyte	GFAP	1990.01
R10_16_04	P02768	69348/6.2	ALBU_HUMAN	Serum albumin [Precursor]	ALB	1986.07
R10_16_05	P06396	85679/6.2	GELS_HUMAN	Gelsolin precursor, plasma	GSN	1988.01

Figure 11
Plasma Proteins Identified After 3-D Separation

DATA ENTRY FORM FOR PROTEOMIC RESEARCH

3D⁺ Fractions (Hong, from serum) by Rong Zhao (Dr. Hanash's lab)

Frac.No.	Acc.No.	MW/pI	Entry name	Protein Name	Gene name	Release date
7134	P32881	21990/5.3	INA8_HUMAN	Interferon alpha-8 [Precursor]	IFNA8	07/1986
7135	Q9Y3C0	21173/4.4	ADI6_HUMAN	Protein AD-016	ADI6	03/2000
7137	Q9H1Y0	32448/5.3	APG5_HUMAN	Autophagy protein 5-like	APG5L	03/2002
71310	P01011	47651/5.3	AACT_HUMAN	Alpha-1-antichymotrypsin [Precursor]	AACT	07/1986
7149	Q16566	51926/5.6	KCC4_HUMAN	Calcium/calmodulin-dependent protein kinase type IV catalytic chain	CAMK4	11/1997
7127	Q15363	28114/4.8	P24_HUMAN	Cop-coated vesicle membrane protein p24 [Precursor]	RNP24	12/1998
7128	Q9NR28	27131/5.7	SMAC_HUMAN	Smac protein, mitochondrial [Precursor]	SMAC	10/2001
72210	Q16206	30531/5.1	COV1_HUMAN	Cytosolic ovarian carcinoma antigen 1	COVA1	07/1999
72211	O43752	29176/4.8	STX6_HUMAN	Syntaxin 6	STX6	03/2000
72112	Q9NNX8	28715/5.9	ZN38_HUMAN	Zinc finger protein 38	ZN38	03/2002
72213	O15491	38927/5.3	ANIH_HUMAN	WD-repeat protein An11 homolog	HAN11	10/2001
72215	O43791	42133/5.6	SPOP_HUMAN	Speckle-type POZ protein	SPOP	03/2000
751	P01615	12662/4.6	KV2B_HUMAN	Ig kappa chain V-II region FR	-	07/1986
752	P06317	12248/4.9	LV6C_HUMAN	Ig lambda chain V-VI region SUT	-	01/1988
782	O75439	16134/4.2	OGB1_HUMAN	G antigen family B 1 protein	GAGE9	03/2000
	P06213	156282/5.9	INSR_HUMAN	Insulin receptor [Precursor]	INSR	01/1988
73419	Q13370	124379/5.6	CN3B_HUMAN	cGMP-inhibited 3',5'-cyclic phosphodiesterase B	PDE3B	07/1998
	Q9BY66	174075/5.6	SMCY_HUMAN	SmcY protein	SMCY	03/2002
	P08069	154795/5.6	IGF1R_HUMAN	Insulin-like growth factor I receptor [Precursor]	IGF1R	08/1988
72320	Q13099	93069/6.0	TG37_HUMAN	Recessive polycystic kidney disease protein Tg37 homolog	TG37	10/2001
73410	P28072	25316/4.8	PSB6_HUMAN	Proteasome subunit beta type 6 [Precursor]	LMPY	08/1992
	Q9UKA8	27492/4.5	CCP3_HUMAN	Calciopressin 3	DSCR1L2	10/2001
7226	O00217	23703/6.0	NUIM_HUMAN	NADH-ubiquinone oxidoreductase 23 kDa subunit, mitochondrial [Precursor]	NDUFS8	11/1997
7227	P35287	23927/5.9	RB14_HUMAN	Ras-related protein Rab-14	RAB14	02/1994
7228	P36597	24236/5.9	NDK5_HUMAN	Nucleoside diphosphate kinase homolog 5	NME5	12/1998